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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/832,093	04/11/2001	Shigeo Ishikawa	Q64059	8684
7	7590 08/01/2003		•	
SUGHRUE, MION, ZINN, MACPEAK & SEAS			EXAMINER	
Washington, D	ania Avenue, N.W. OC 20037		NGUYEN, KHIEM D	
			ART UNIT	PAPER NUMBER
			2823	
		DATE MAILED: 08/01/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Offic Action Summary	09/832,093	ISHIKAWA, SHIGEO				
Action Gummary	Examin r	Art Unit				
The MAILING DATE of this communication and	Khiem D Nguyen	2823				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 13 M						
, <u> </u>	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-5 and 7-14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5 and 7-14</u> is/are rejected.						
7)☐ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>11 April 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

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DETAILED ACTION

Response to Amendment

Response to Arguments

Applicant's arguments with respect to claims 1-5 and 7-14 have been considered but are most in view of the new ground(s) of rejection.

New Grounds of Rejection

Drawings

The corrected or substitute drawings were received on 05-13-2003. These drawings are accepted by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-5 and 7-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Li et al. (U.S. Pub. 2002/0160113).

In re claims 1, 4, 5, 8, 9, and 12, Li discloses a method of forming a film, comprising the steps of (a) starting a supply of a reaction gas at a first flow rate into a chamber (FIG. 3, 18) in which a plasma is formed, such that an initial film is formed on a substrate via a first nozzle provided on the chamber above the center region of the

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substrate and (b) starting a supply of the reaction gas at a second flow rate into the chamber in which the plasma is formed, after the step (a), while the supply of the reaction gas at the first flow rate continues such that the film is formed on the initial film (page 3, paragraph [0028] and FIG. 3).

Nozzle (FIG. 3, 56, 64) positioned over the center of the substrate (FIG. 3, 20) inherently producing the film on the center region.

Li has the same reaction gas flowing from (FIG. 3, 34a) and (FIG. 3, 56) using different flow rates (a mixture of gases from source (FIG. 3, 58)) and also allows the user to optimize different start times by using different controllers (FIG. 3, 37, 60) for the reaction gases for desired results.

In re claims 2, 3, 10, and 11, Li discloses the reaction gas is a compound gas containing Si wherein the reaction gas is one of SiH₄ and SiF₄ (page 3, paragraph [0028]).

In re claims 7 and 14, Li discloses wherein the step (b) comprises starting supply of the reaction gas at the second flow rate into the chamber via second nozzles (FIG. 3, 34a) wherein the second nozzles are provided on sidewalls of the chamber above the wafer (page 3, paragraph [0028] and FIG. 3).

In re claim 13, Li discloses wherein the step (a) comprises starting supply of the reaction gas at the first flow rate into the chamber via a first nozzle wherein the first nozzle is provided on the chamber above a center region of the wafer (page 3, paragraph [0028] and FIG. 3).

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Response to Amendment

Response to Arguments

Applicant's arguments with respect to claims 1-5 and 7-14 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khiem D Nguyen whose telephone number is (703) 306-0210. The examiner can normally be reached on Monday-Friday (8:00 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703) 746-9179 for regular communications and (703) 746-9179 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

K.N. July 24, 2003

> Olik Chaudhuri Suparvisory Palant Egaminer Technology Center 2800